

implementing and visualizing computer network protocols, which has primarily been used

for teaching computer networks. NetPrIDE makes use of an abstract and formal notation to clearly and firmly specify a protocol: once the protocol has been specified and the network topology has been fixed, the implementation and the visualization of the protocol is performed in a completely automated way.

Keywords: Java, computer network, protocol, software visualization

4 Tools: NIST Net: a Linux-based network emulation tool

Mark Carson, Darrin Santay

July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3

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Full text available: pdf(509.00 KB) Additional Information: full citation, abstract, references

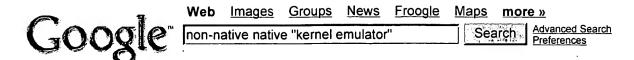
Testing of network protocols and distributed applications has become increasingly complex, as the diversity of networks and underlying technologies increase, and the adaptive behavior of applications becomes more sophisticated. In this paper, we present NIST Net, a tool to facilitate testing and experimentation with network code through emulation. NIST Net enables experimenters to model and effect arbitrary performance dynamics (packet delay, jitter, bandwidth limitations, congestion, pac ...

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